

OCT 19 2005

510(k) SUMMARY**SUBMITTER INFORMATION**

- A. Company Name: Spectranetics Corporation, Inc.
- B. Company Address: 96 Talamine Court
Colorado Springs, Colorado 80907
- C. Company Phone: 719-633-8333 / 1-800-633-0960
- D. Company Facsimile: 719 442 2248
- E. Contact Person: Adrian Elfe
Vice President
Quality Assurance & Regulatory Affairs Compliance

DEVICE IDENTIFICATION

- A. Device Trade Name: CLiRpath Turbo Plus™ Excimer Laser Catheter
- B. Device Common Name: Laser Catheter
- C. Classification Name: Catheter, Peripheral, Atherectomy
- D. Device Class: Class II (per 21 CFR 870.4875)
- E. Device Code: MCW

IDENTIFICATION OF PREDICATE DEVICES

Spectranetics CLiRpath Turbo excimer laser catheters with continuous-on functionality, [510(k) K052296], serve as predicates to the line of CLiRpath Turbo Plus™ excimer laser catheters with 80 Hz and continuous-on capability. The 2.5 mm CLiRpath Turbo excimer laser catheter and CLiRpath™ excimer laser catheters, cleared under 510(k)'s K043465 and K043465, respectively, likewise serves as a predicate devices.

DEVICE DESCRIPTION

Spectranetics' CLiRpath excimer laser atherectomy catheters, including CLiRpath Turbo Plus™ models, consist of a bundle of optical fibers, encased within medical grade tubing. The optical fibers conduct ultraviolet laser light (excimer laser light at 308 nm) from a source to the tip of the catheter. The catheter is inserted into a patient's vasculature along the length of a previously inserted guidewire, allowing the operator to deliver laser energy targeted to a lesion (blockage) in the vasculature. CLiRpath laser catheters are provided in models designed for both "over-the-wire" and "rapid exchange" interventional techniques. Laser energy impinged on a blockage photoablates, or debulks, the lesion material re-establishing blood flow within the vessel, and permitting placement of devices used in vascular interventions.

Spectranetics brand CLiRpath Turbo Plus™ excimer laser catheters will add 80 Hz as a maximum repetition rate for pulsed laser energy to the peripheral atherectomy catheter models not already cleared for 80 Hz operation.

INTENDED USE

For use in the endovascular treatment of symptomatic infrainguinal lower extremity vascular disease where total obstructions can not be crossed with standard guide wires.

COMPARISON TO PREDICATE DEVICES

CLiRpath Turbo Plus™ excimer laser catheters for peripheral use are substantially equivalent in form, fit, and function to Spectranetics CLiRpath Turbo excimer laser catheters, including the 2.5 mm Turbo catheter, which has received market clearance under section 510(k) rules. Prior peripheral atherectomy laser catheters with tip sizes ranging from 1.4 to 2.5 mm, delivered photoablating laser energy at up to 40 pulses per second (40 Hz). CLiRpath Turbo Plus™ excimer laser catheters are enhanced versions of these catheters, providing the physician with faster ablation speeds due to a doubled pulse rate of 80 Hz.

CLiRpath Turbo Plus™ excimer laser catheters are fiber optic catheters with a selection of working lengths between 110 cm and 150 cm. Tip diameters range from 1.4 mm to 2.5 mm. The catheters deliver excimer laser energy at 308 nm to an occlusion within a patient's targeted peripheral artery. Delivered energy photoablates occlusive material, such as arterial plaque, and permits its removal via the patient's reticuloendothelial system. The arterial channel opened by either the predicate device or the Turbo catheter, facilitates subsequent placement of other devices and interventions, and re-establishes blood flow within the diseased vessel.

BIOCOMPATIBILITY, STERILIZATION, PACKAGING, AND BENCH TESTING

CLiRpath Turbo Plus™ excimer laser catheters are built from the same components and materials of construction as other, already-marketed, Spectranetics products. Therefore, biocompatibility of both component materials and the finished CLiRpath Turbo catheters have been previously confirmed in accord with the ISO 10993 series of standards, Biological Evaluation of Medical Devices. Spectranetics conducts and maintains valid ethylene oxide sterilization processes in accord with ISO 11135, Medical Devices - Validation and Routine Control of Ethylene Oxide Sterilization. Package integrity is initially validated, and, in addition, visually verified for 100% of Spectranetics devices prior to transfer to finished goods inventory.

Device integrity and functionality were qualified and/or validated using samples produced under routine manufacturing conditions. All CLiRpath Turbo Plus™ excimer laser catheter models meet or exceed both Spectranetics in-house requirements, and requirements listed in ISO 10555-1, Sterile, Single-use Intravascular Catheters – Part 1: General Requirements.

CONCLUSION

The above statements establish substantial equivalence between the CLiRpath Turbo predicate devices, including 2.5 mm Turbo model, and the CLiRpath Turbo Plus™ excimer laser catheters.



Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

OCT 19 2005

Spectranetics
c/o Mr. Neil Burris
Clinical Data Services
96 Talamine Court
Colorado Springs, CO 80907-5159

Re: K052514
CLiRpath Turbo Plus Excimer Laser Catheter
Regulation Number: 21 CFR 870.4875
Regulation Name: Peripheral Atherectomy Catheter
Regulatory Class: Class II (Two)
Product Code: MCW
Dated: September 14, 2005
Received: September 14, 2005

Dear Mr. Burris:

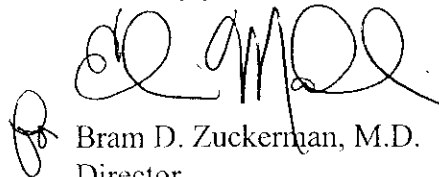
We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050. This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Bram D. Zuckerman". The signature is stylized with large, flowing loops and a prominent "Z" shape.

Bram D. Zuckerman, M.D.
Director
Division of Cardiovascular Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

7. Statement of Indication for Use

**Device Name: Spectranetics CLiRpath Turbo Plus™
Excimer Laser Catheter**

Indications for Use

For use in the endovascular treatment of symptomatic infrainguinal lower extremity vascular disease where total obstructions can not be crossed with standard guide wires.

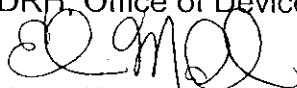
Prescription Use **XXXX**
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use _____
(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)



(Division Sign-Off)
Division of Cardiovascular Devices

510(k) Number K052514